## DUAL FILTER MULTIPLE PULSE PHOTO-DERMATOLOGICAL DEVICE WITH PRE/POST OPTICAL HEATING, QUASI-LOGARITHMIC SPACING, AND LASER ROD SPECTRUM INFUSION

## CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of the U.S. Patent Application Serial No. 1/5 P=4 No. 6, 595, 862, 09/841,816 filed April 25, 2001, which is a continuation-in-part of U.S. Patent Application Serial No. 09/173,422 filed on October 15, 1998, which is now U.S. Patent 6,228,074 issued on May 8, 2001, which is incorporated herein by reference in its entirety.

## **BACKGROUND OF THE INVENTION**

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This invention relates to a method and device for treating and removing various skin conditions and lesions using flashlamps. There exists a multitude of common skin problem which can be caused by many reasons. Conditions such as excessive hair, age spots, freckles, superficial veins, wrinkles, acne, rosacea and collagen shrinkage due to old age to name just a few. There are many products and methods for treating such skin conditions. The methods can include one or a combination of external creams, chemicals, internal medications, laser devices, mechanical devices, and surgery.

These methods vary in effectiveness, pain, term of benefit, side effects, duration of treatment, and cost of procedure. Unfortunately, to treat all the various skin conditions generally requires multiple devices and/or treatment modalities. Because of this need for multiple devices and modalities to treat numerous skin conditions, a single device that could treat a great number of skin conditions would make treatments more accessible to the public.

Prior art methods such as Altshuler et al. U.S. Patent No. 6,511,475 utilizes continuous wave light as apposed to a pulsed light system. The Altshuler device does not create high peak temperatures in a short time span due to its continuous wave nature. This inability to create high peak temperatures in a short time span prohibits its use in a wide variety of skin conditions.

While another prior art method disclosed in Eckhouse et al. U.S. Patent No. 6,514, 243 utilizes pulsed light. Its particular spectrum distribution pattern requires the use of a cooling gel to prevent discomfort to the patient. Unfortunately, the spectrum distribution pattern of the